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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/522,421	03/09/2000	Jacek Stachurski	TI-29010	4064	
	90 01/09/200 JMENTS INCORPOR		EXAMINER		
P O BOX 655474	4, M/S 3999		CHAWAN, VIJAY B		
DALLAS, TX 75	0265		ART UNIT	PAPER NUMBER	
			2626		
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SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MON	THS	01/09/2007	PAI	PER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)	, , , , , , , , , , , , , , , , , , , ,	
		09/522,421	STACHURSKI ET AL.	STACHURSKI ET AL.	
	Office Action Summary	Examiner	Art Unit		
•		Vijay B. Chawan	2626		
Period fo	The MAILING DATE of this communication a r Reply	appears on the cover sheet	vith the correspondence address		
A SHO WHIC - Exter after - If NO - Failui Any r	ORTENED STATUTORY PERIOD FOR REI HEVER IS LONGER, FROM THE MAILING isions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory perior e to reply within the set or extended period for reply will, by sta- eply received by the Office later than three months after the may deply a patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may iod will apply and will expire SIX (6) Munutute, cause the application to become	IICATION. a reply be timely filed  ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).		
Status					
2a)⊠	Responsive to communication(s) filed on 30 This action is FINAL. 2b) To Since this application is in condition for allow closed in accordance with the practice under the practice under the second se	his action is non-final. wance except for formal ma			
Dispositi	on of Claims				
5)□ 6)⊠ 7)□	Claim(s) <u>1-4</u> is/are pending in the applicatio 4a) Of the above claim(s) is/are without Claim(s) is/are allowed. Claim(s) <u>1-4</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and	drawn from consideration.			
Applicati	on Papers				
10)	The specification is objected to by the Example The drawing(s) filed on is/are: a) and a Applicant may not request that any objection to the Replacement drawing sheet(s) including the continuous of the oath or declaration is objected to by the	accepted or b) objected the drawing(s) be held in abey rection is required if the drawing.	ance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR 1.121(d)	).	
Priority u	ınder 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of: <ol> <li>Certified copies of the priority documents have been received.</li> <li>Certified copies of the priority documents have been received in Application No</li> <li>Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> </ol> </li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
2) Notice 3) Information	t(s)  e of References Cited (PTO-892)  e of Draftsperson's Patent Drawing Review (PTO-948)  mation Disclosure Statement(s) (PTO/SB/08)  ir No(s)/Mail Date	Paper N	v Summary (PTO-413) o(s)/Mail Date if Informal Patent Application 		

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

2. Claims 1-4 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claims 1-4 define non-statutory processes because they merely manipulate an abstract idea (mathematical algorithm) without a claimed limitation to a practical application. The disclosed invention has a practical application in the technological arts (e.g encoding/quantizing speech waveforms); however, the claimed process, steps to be performed on a computer, simply manipulates an abstract idea without a claimed limitation to the practical application and does not have any post or pre computer process activity.

Claims 1-4 are directed toward a process that does nothing more than solve a mathematical 'problem or manipulate abstract idea or concept, and not patentable under 35 USC 101. (See Interim guidelines, Annex 5). A claimed process consisting solely of mathematical operations, i.e., converting one set of numbers into another set of numbers, does not manipulate appropriate subject matter, and thus cannot constitute a statutory process. (See In re Benson, 409 U.S. at 71-72, 175 USPQ at 676).

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Applicant should note, however, that claims directed to speech or audio signal processing, would be considered to be statutory subject matter. Receiving an input speech signal and using the received input digital speech signal and encoding using strong and weak predictors would constitute pre computer activity.

The disclosed invention of the instant application pertains to an encoding method using strong and weak predictors comprising the step of replacing a strong predictor following a weak predictor with a weak predictor, which is a manipulation of an abstract idea without any limitation to a practical application.

### Response to Arguments

Applicant's arguments filed 10/30/06 have been fully considered but they are not 3. persuasive. Newly amended claim 1 does not overcome 35 USC 101 rejection. See above. Also when the applicant recites in the claim "spectra vectors" does he mean speech spectral vectors? Even though the applicant amended the claim to include digital speech, the body of the claim language itself does not show or refer to said speech signal as to how that speech signal is being encoded, since the claim is directed to an encoding method of the digital speech signal.

#### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in 4. this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vijay B. Chawan whose telephone number is (571) 272-7601. The examiner can normally be reached on Monday Through Friday 6:30-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil can be reached on (571) 272-7602. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Vijay B. Chawan Primary Examiner Art Unit 2654

vbc 1/8/07 VIJAY CHAWAN PRIMARY EXAMINER